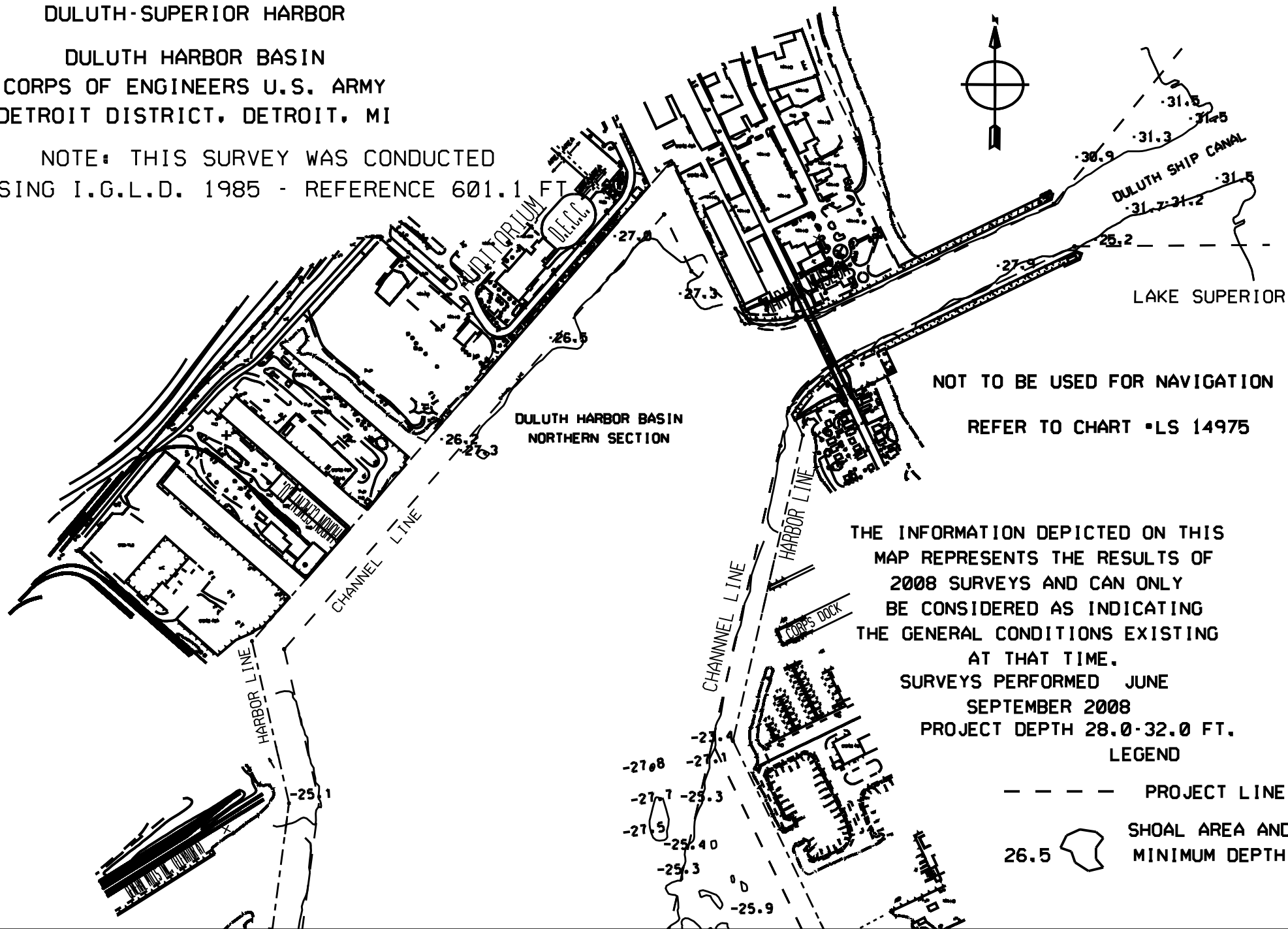
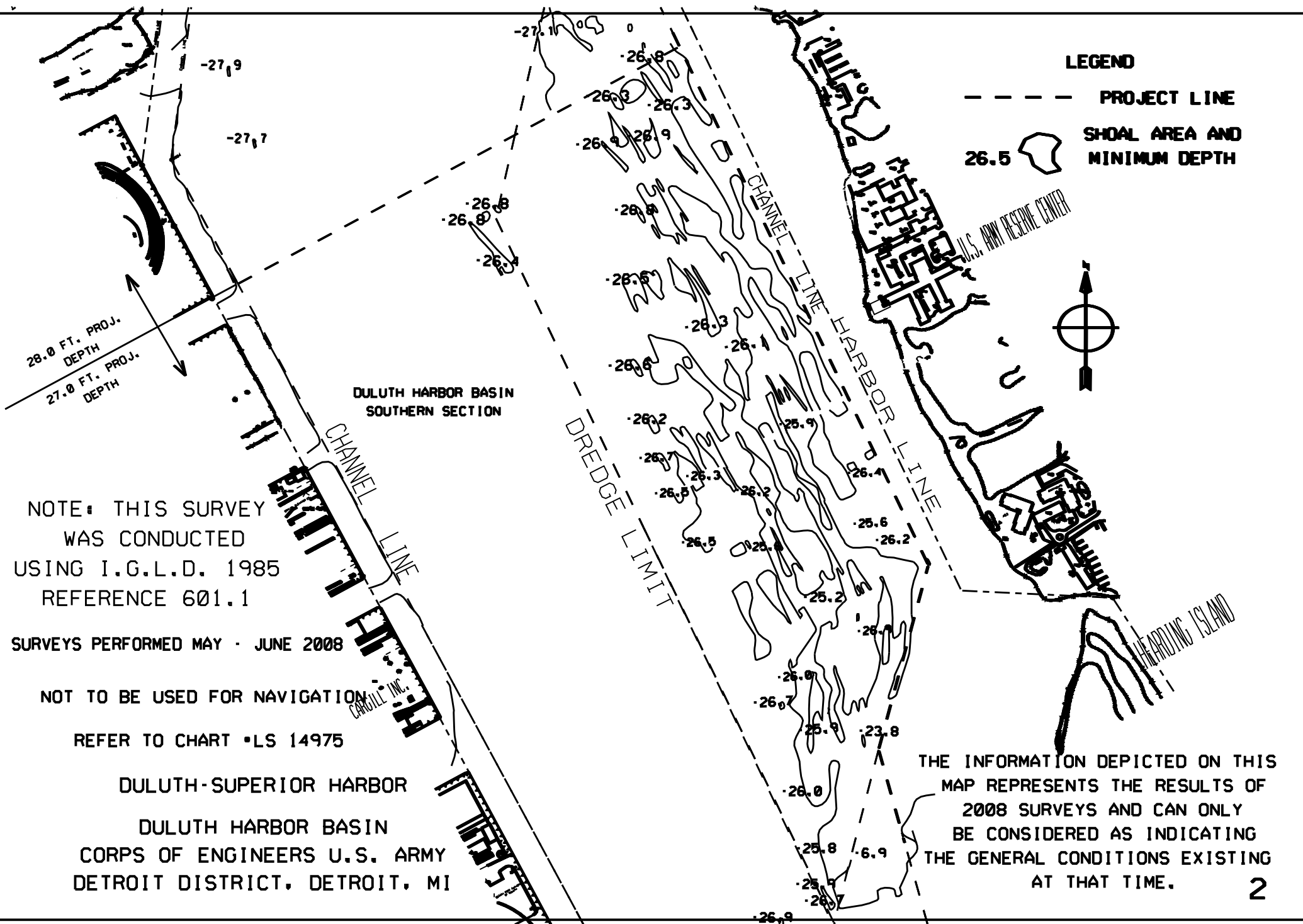


DULUTH-SUPERIOR HARBOR

DULUTH HARBOR BASIN
CORPS OF ENGINEERS U.S. ARMY
DETROIT DISTRICT, DETROIT, MI

NOTE: THIS SURVEY WAS CONDUCTED
USING I.G.L.D. 1985 - REFERENCE 601.1 FT





NOTE: THIS SURVEY WAS CONDUCTED
USING I.G.L.D. 1985 - REFERENCE 601.1 FT

DULUTH-SUPERIOR HARBOR

EAST GATE BASIN
CORPS OF ENGINEERS U.S. ARMY
DETROIT DISTRICT, DETROIT, MI

THE INFORMATION DEPICTED ON THIS
MAP REPRESENTS THE RESULTS OF
2008 SURVEYS AND CAN ONLY
BE CONSIDERED AS INDICATING
THE GENERAL CONDITIONS EXISTING
AT THAT TIME.

SURVEYS PERFORMED JULY
SEPTEMBER 2008

PROJECT DEPTH 27.0 FT.



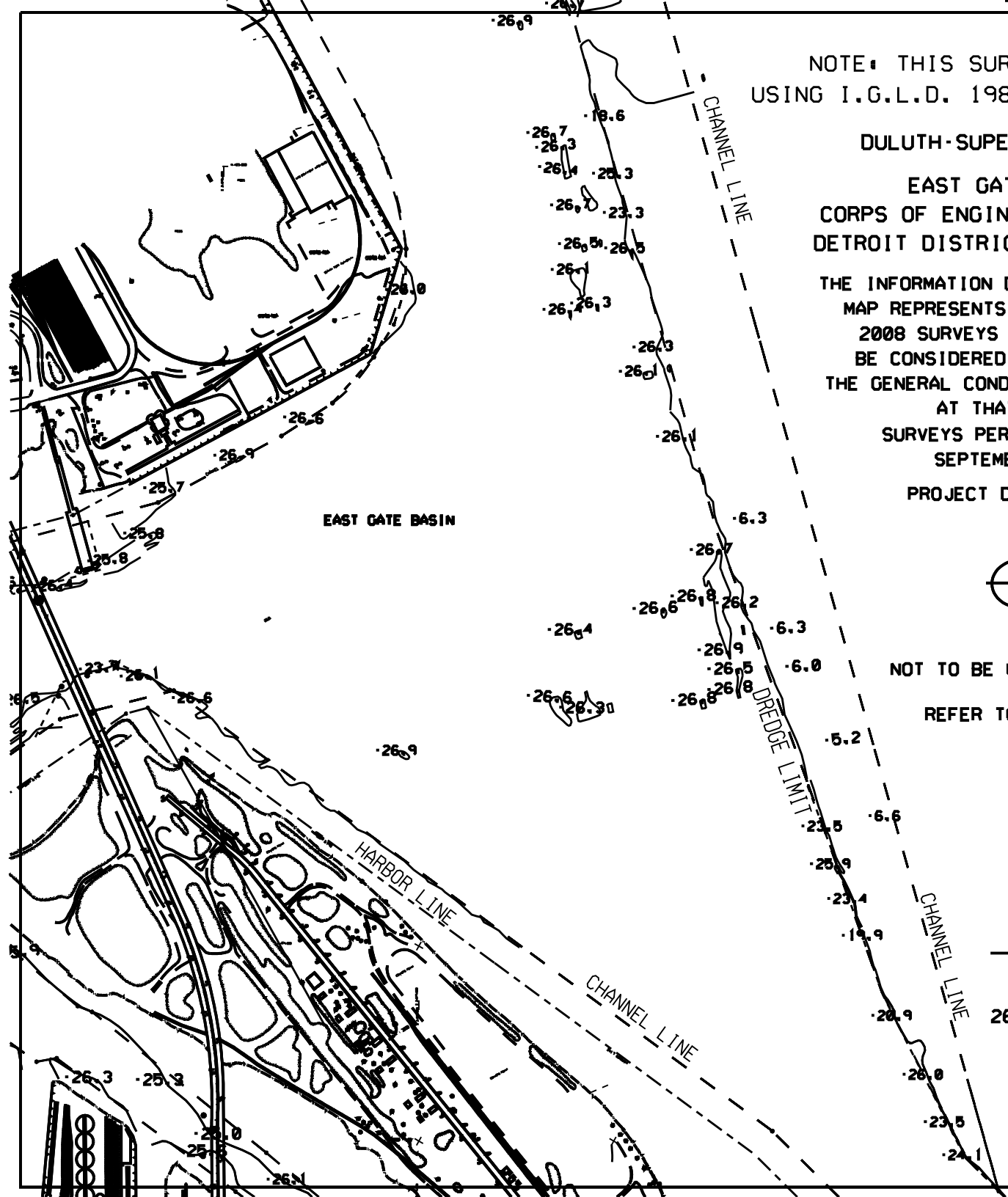
NOT TO BE USED FOR NAVIGATION

REFER TO CHART "LS 14975

LEGEND

--- PROJECT LINE

26.5  SHOAL AREA AND
MINIMUM DEPTH



DULUTH-SUPERIOR HARBOR
SUPERIOR FRONT CHANNEL
CORPS OF ENGINEERS U.S. ARMY
DETROIT DISTRICT, DETROIT, MI

THE INFORMATION DEPICTED ON THIS
MAP REPRESENTS THE RESULTS OF
2008 SURVEYS AND CAN ONLY
BE CONSIDERED AS INDICATING
THE GENERAL CONDITIONS EXISTING
AT THAT TIME.

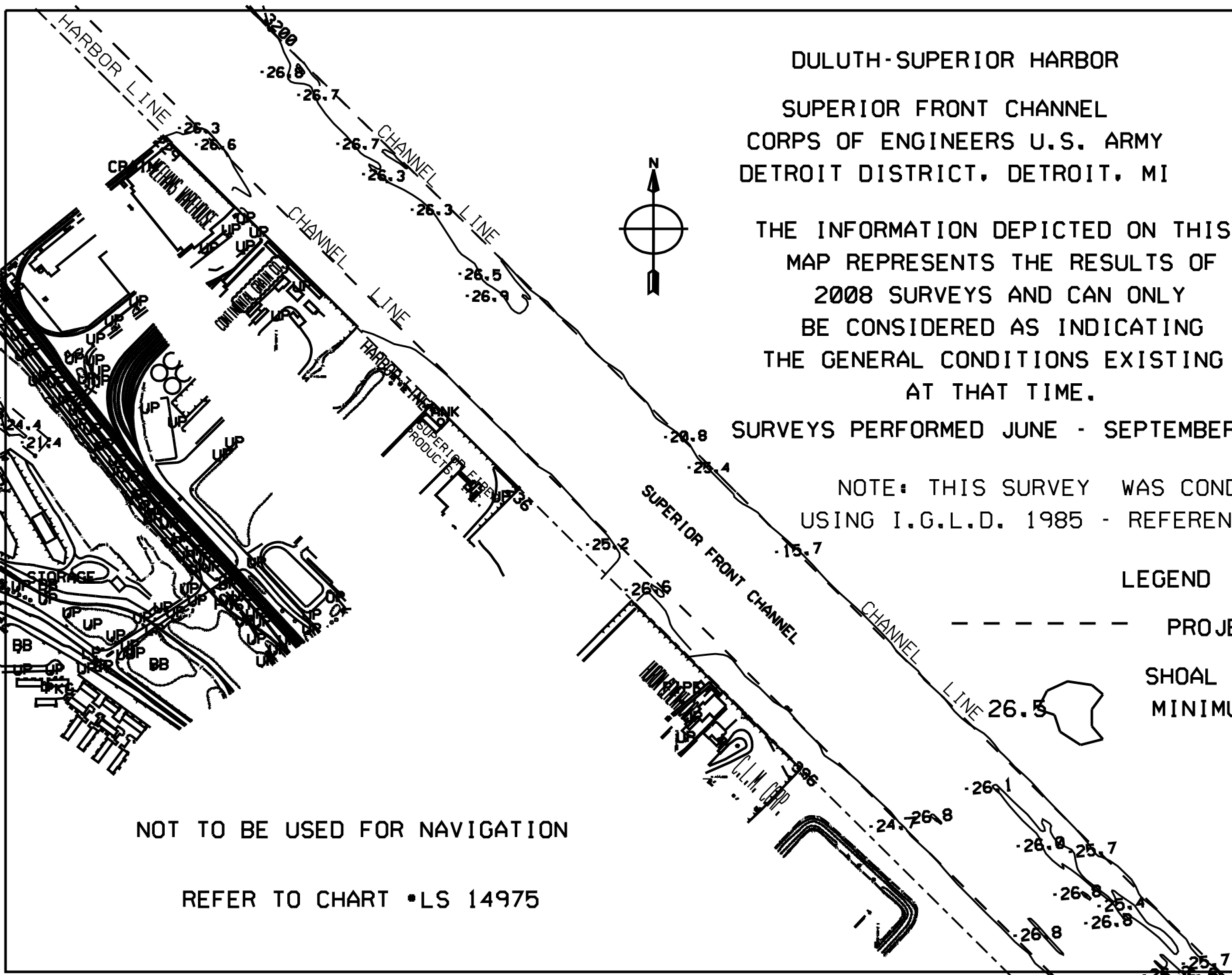
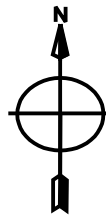
SURVEYS PERFORMED JUNE - SEPTEMBER 2008

NOTE: THIS SURVEY WAS CONDUCTED
USING I.G.L.D. 1985 - REFERENCE 601.1

LEGEND

--- PROJECT LINE

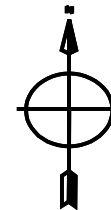
SHOAL AREA AND
MINIMUM DEPTH



NOT TO BE USED FOR NAVIGATION


REFER TO CHART •LS 14975

DULUTH-SUPERIOR HARBOR
SUPERIOR FRONT CHANNEL
CORPS OF ENGINEERS U.S. ARMY
DETROIT DISTRICT, DETROIT, MI



THE INFORMATION DEPICTED ON THIS
MAP REPRESENTS THE RESULTS OF
2008 SURVEYS AND CAN ONLY
BE CONSIDERED AS INDICATING
THE GENERAL CONDITIONS EXISTING
AT THAT TIME.
SURVEYS PERFORMED IN SEPTEMBER 2008
PROJECT DEPTH 27.0 FT.

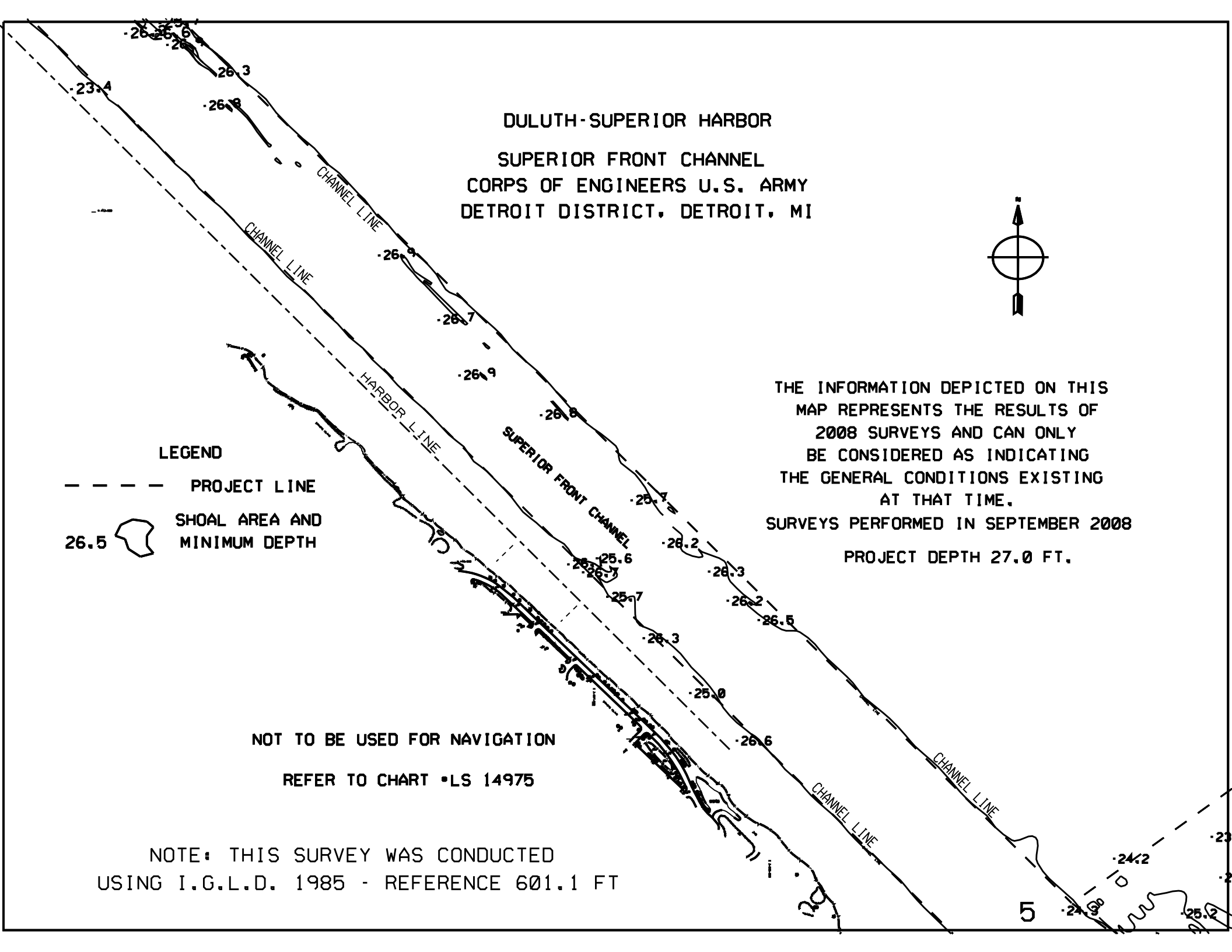
LEGEND

--- PROJECT LINE
26.5  SHOAL AREA AND
MINIMUM DEPTH

NOT TO BE USED FOR NAVIGATION

REFER TO CHART •LS 14975

NOTE: THIS SURVEY WAS CONDUCTED
USING I.G.L.D. 1985 - REFERENCE 601.1 FT



NOTE: THIS SURVEY WAS CONDUCTED
USING I.G.L.D. 1985 - REFERENCE 601.1

NOT TO BE USED FOR NAVIGATION

REFER TO CHART •LS 14975

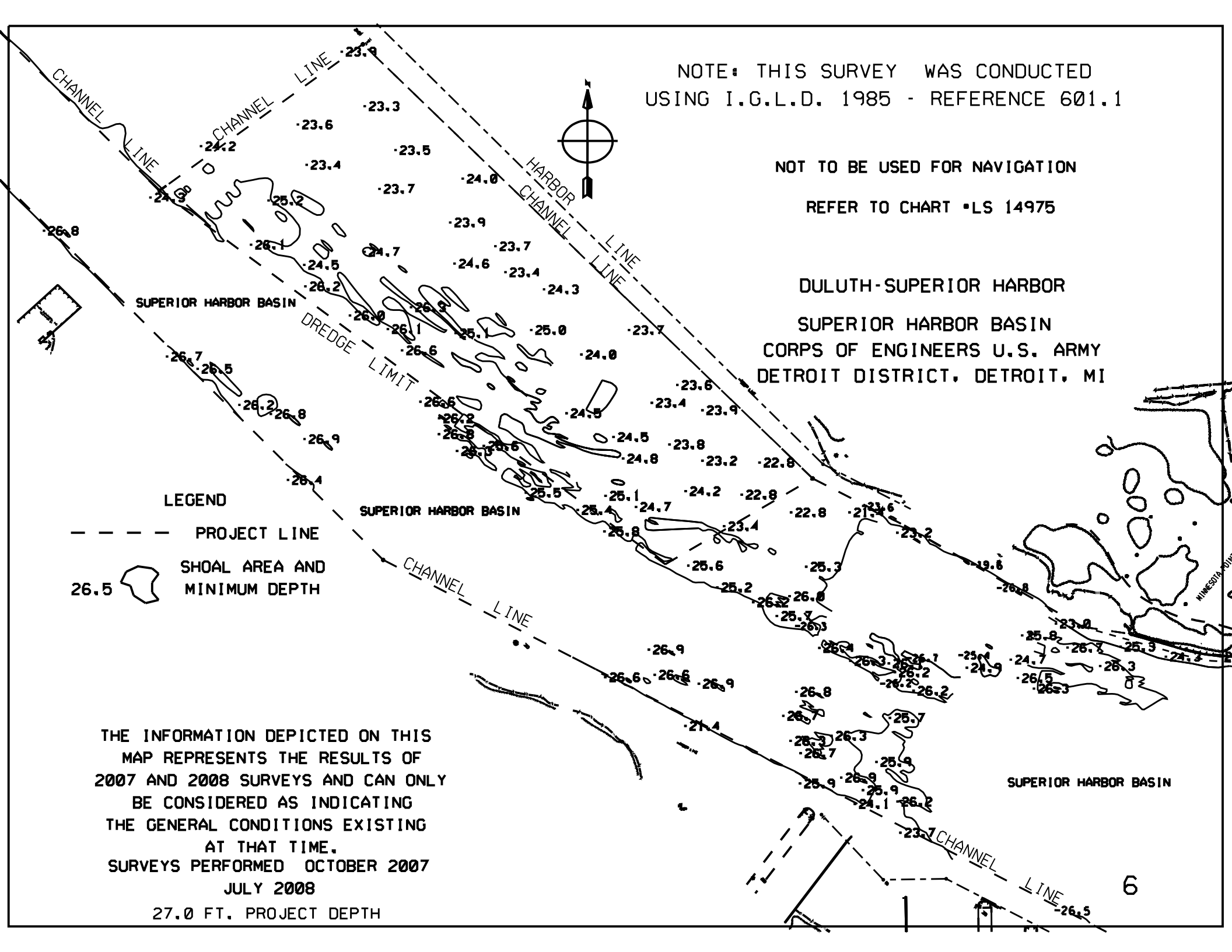
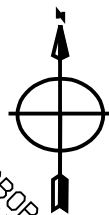
DULUTH-SUPERIOR HARBOR

SUPERIOR HARBOR BASIN
CORPS OF ENGINEERS U.S. ARMY
DETROIT DISTRICT, DETROIT, MI

LEGEND

--- PROJECT LINE
26.5  SHOAL AREA AND
MINIMUM DEPTH

THE INFORMATION DEPICTED ON THIS
MAP REPRESENTS THE RESULTS OF
2007 AND 2008 SURVEYS AND CAN ONLY
BE CONSIDERED AS INDICATING
THE GENERAL CONDITIONS EXISTING
AT THAT TIME.
SURVEYS PERFORMED OCTOBER 2007
JULY 2008
27.0 FT. PROJECT DEPTH



DULUTH-SUPERIOR HARBOR

SUPERIOR HARBOR BASIN
CORPS OF ENGINEERS U.S. ARMY
DETROIT DISTRICT, DETROIT, MI


THE INFORMATION DEPICTED ON THIS
MAP REPRESENTS THE RESULTS OF
2007 AND 2008 SURVEYS AND CAN ONLY
BE CONSIDERED AS INDICATING
THE GENERAL CONDITIONS EXISTING
AT THAT TIME.

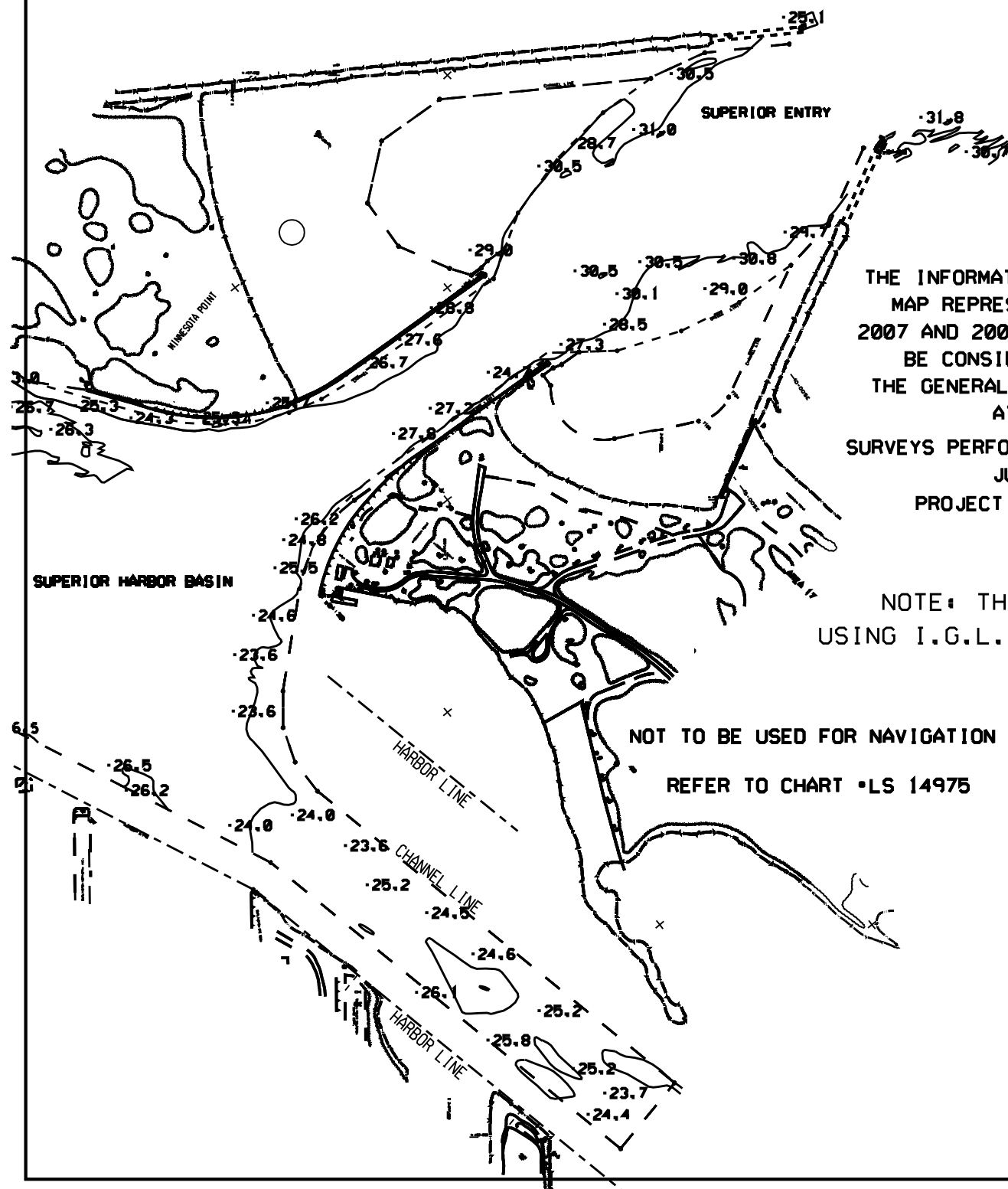
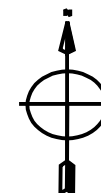
SURVEYS PERFORMED OCTOBER 2007
JUNE 2008
PROJECT DEPTH 27.0 FT.

NOTE: THIS SURVEY WAS CONDUCTED
USING I.G.L.D. 1985 - REFERENCE 601.1 FT

NOT TO BE USED FOR NAVIGATION
REFER TO CHART •LS 14975

LEGEND

--- PROJECT LINE
26.5  SHOAL AREA AND
MINIMUM DEPTH



DULUTH-SUPERIOR HARBOR
ST. LOUIS BAY
CORPS OF ENGINEERS U.S. ARMY
DETROIT DISTRICT, DETROIT, MI

NOT TO BE USED FOR NAVIGATION

REFER TO CHART -LS 14975

LEGEND

--- PROJECT LINE

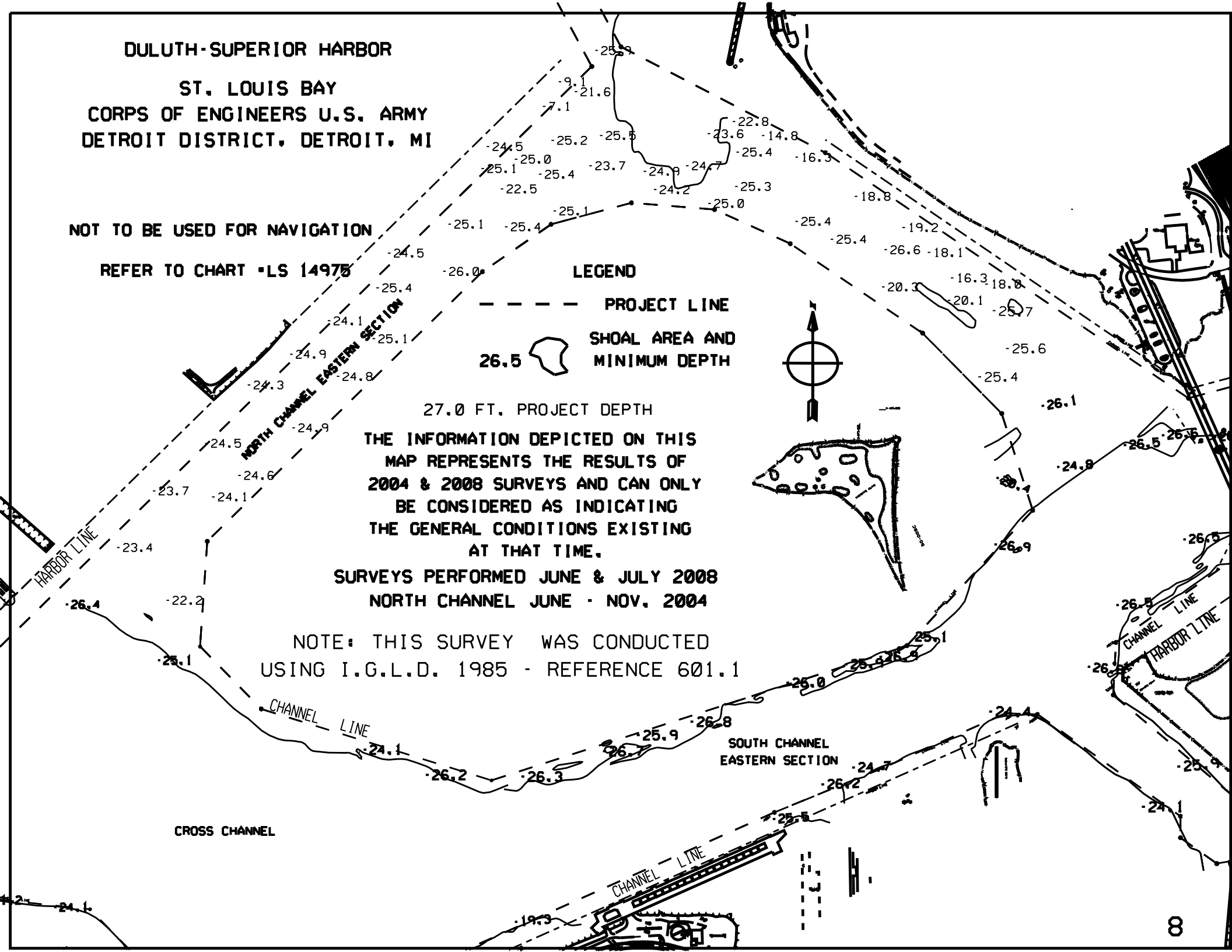
26.5  SHOAL AREA AND
MINIMUM DEPTH

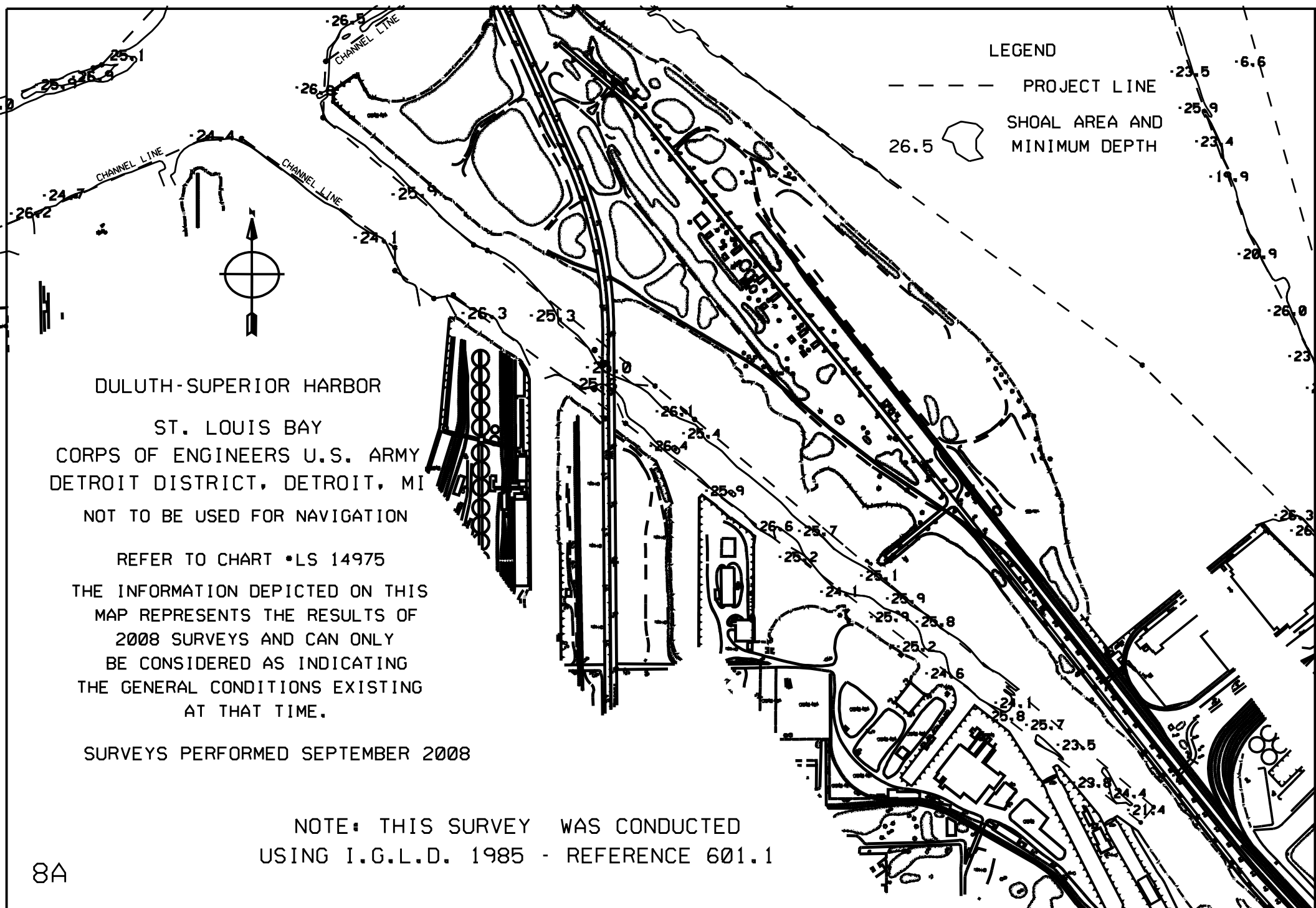
27.0 FT. PROJECT DEPTH

THE INFORMATION DEPICTED ON THIS
MAP REPRESENTS THE RESULTS OF
2004 & 2008 SURVEYS AND CAN ONLY
BE CONSIDERED AS INDICATING
THE GENERAL CONDITIONS EXISTING
AT THAT TIME.

SURVEYS PERFORMED JUNE & JULY 2008
NORTH CHANNEL JUNE - NOV. 2004

NOTE: THIS SURVEY WAS CONDUCTED
USING I.G.L.D. 1985 - REFERENCE 601.1





ST. LOUIS BAY
CORPS OF ENGINEERS U.S. ARMY
DETROIT DISTRICT, DETROIT, MI

**SURVEYS PERFORMED SEPTEMBER -
OCTOBER 2008**

REFER TO CHART • LS 14975-229

SHOAL AREA AND MINIMUM DEPTH

NOTE: THIS SURVEY WAS CONDUCTED
USING I.G.L.D. 1985 - REFERENCE 601.1 FT

NOT TO BE USED FOR NAVIGATION

REFER TO CHART "LS 14975"

DULUTH-SUPERIOR HARBOR
MINNESOTA & UPPER CHANNELS
CORPS OF ENGINEERS U.S. ARMY
DETROIT DISTRICT, DETROIT, MI



LEGEND

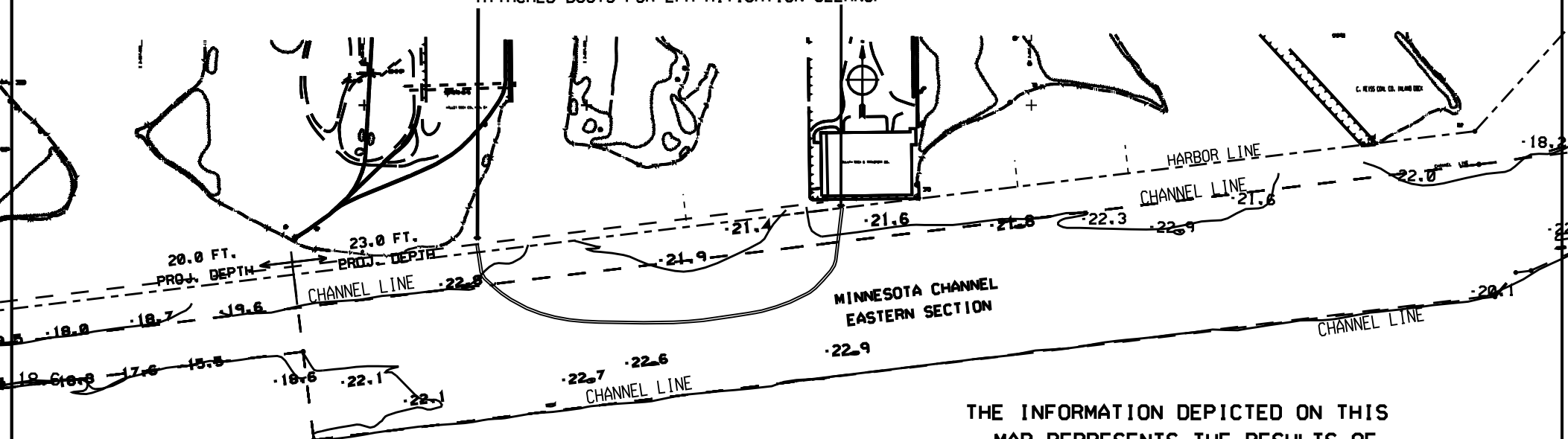
--- PROJECT LINE
26.5 SHOAL AREA AND
MINIMUM DEPTH

NOTE: THIS SURVEY
WAS CONDUCTED
USING I.G.L.D. 1985
REFERENCE 601.1

THE INFORMATION DEPICTED ON THIS
MAP REPRESENTS THE RESULTS OF
2008 SURVEYS AND CAN ONLY
BE CONSIDERED AS INDICATING
THE GENERAL CONDITIONS EXISTING
AT THAT TIME.


SURVEYS PERFORMED OCTOBER 2008

STAY CLEAR OF AREA SILT CURTAIN WITH
ATTACHED BUOYS FOR EPA MITIGATION CLEANUP



THE INFORMATION DEPICTED ON THIS
MAP REPRESENTS THE RESULTS OF
2008 SURVEYS AND CAN ONLY
BE CONSIDERED AS INDICATING
THE GENERAL CONDITIONS EXISTING
AT THAT TIME.

SURVEYS PERFORMED OCTOBER 2008

- - - - PROJECT LINE
 26.5  SHOAL AREA AND
 MINIMUM DEPTH

NOT TO BE USED FOR NAVIGATION

REFER TO CHART •LS 14975

NOTE: THIS SURVEY WAS CONDUCTED
USING I.G.L.D. 1985 - REFERENCE 601.1 FT

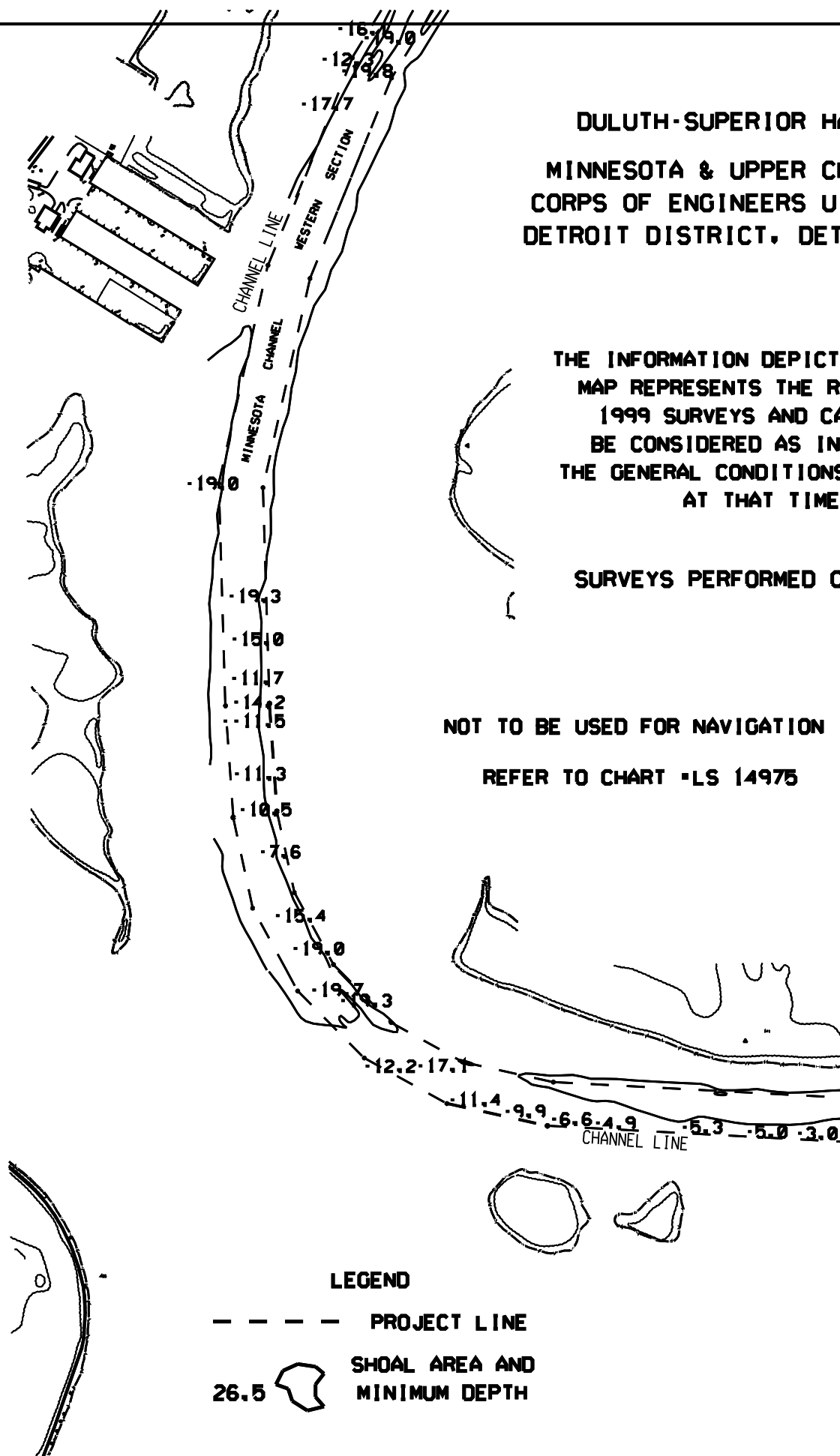
**DULUTH-SUPERIOR HARBOR
MINNESOTA & UPPER CHANNELS
CORPS OF ENGINEERS U.S. ARMY
DETROIT DISTRICT, DETROIT, MI**

THE INFORMATION DEPICTED ON THIS
MAP REPRESENTS THE RESULTS OF
1999 SURVEYS AND CAN ONLY
BE CONSIDERED AS INDICATING
THE GENERAL CONDITIONS EXISTING
AT THAT TIME.

SURVEYS PERFORMED OCTOBER 1999

NOT TO BE USED FOR NAVIGATION

REFER TO CHART -LS 14975



LEGEND

--- PROJECT LINE

26.5  SHOAL AREA AND
MINIMUM DEPTH